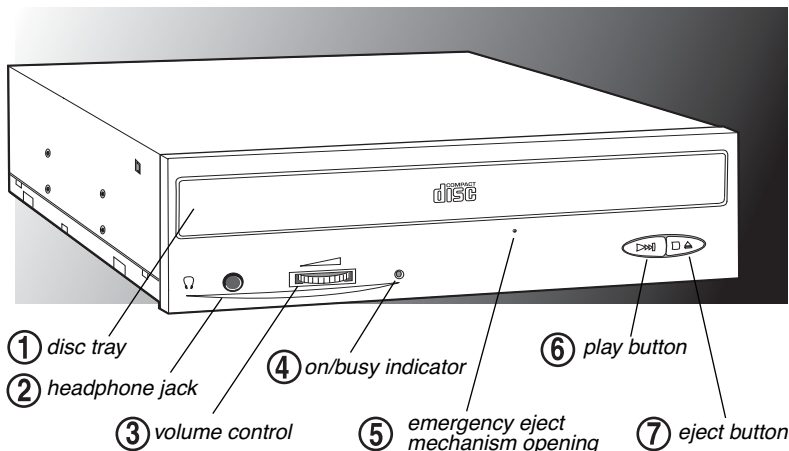


CD-ROM Drive Installation Guide

Model CD-552E (52X MAX) IDE/ATAPI Interface



- ① disc tray:** Use the disc tray to load CDs into the drive. You can open and close the tray by pressing the eject button.

Note: We strongly recommend that you do not push the tray in to close it. Please press the eject button to eject or retract the tray.

- ② headphone jack (3.5mm):** You can connect headphones or external speakers to this jack to listen to an audio CD being played on your TEAC drive. Use a 3.5 mm stereo mini-plug. For external speakers, connect a stereo adapter to split the output into separate cables for the left and right channels. Such adapters convert a male stereo mini-jack to two female phono jacks.
- ③ volume control:** Use the volume control to adjust the volume. Turning the control to the right increases the volume. Turning it to the left decreases the volume. (Lower the volume before you start a CD-ROM audio program to protect your hearing and the audio speakers.)
- ④ on/busy indicator:** The drive features an LED indicator light on the front panel, which indicates the seek, play, and read operations.
- ⑤ emergency eject mechanism:** If the eject button fails, you can *turn off the power to the CD-ROM drive* and insert a small, thin rod (such as a straightened paper clip) into the emergency eject mechanism opening and press firmly to eject the disc.

Caution: Do not attempt to use the emergency eject mechanism when the on/busy indicator is lit or you may seriously damage the disc or the CD-ROM drive.

- ⑥ play button:** Press this button to play a music disc through the headphone jack.
- ⑦ eject button:** Press this button to open or close the disc tray. (Some CD-ROM titles disable the manual eject button and rely on software commands to eject the disc. Refer to the documentation for these titles for more information.)

Introduction

Thank you for purchasing the TEAC 52X speed CD-ROM drive. This product is designed to provide maximum CD-ROM playback performance, enjoyment and ease of use. Refer to Recommended System Requirements to ensure the drive's proper 52X maximum performance.

The TEAC 52X speed CD-ROM drive can read certain data up to 52 times faster than conventional speed CD-ROMs. It also plays lower speed titles at their respective speeds. It is easy to operate, dust-proof, and features a convenient power tray for disk loading.

Notes:

- ☐ Please read this installation guide thoroughly before you begin the installation.
- ☐ Performance may vary depending on system CPU speed and system settings.

Tools You May Need

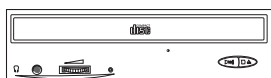
Depending on the design of your computer, you may need a flat-blade (—) screwdriver, a Phillips (+) screwdriver, and/or a pair of needle-nosed pliers to complete the installation of the CD-ROM drive.

Recommended System Requirements

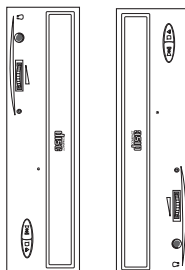
- ☐ IBM PC-compatible computer, Pentium® 133 MHz or higher
- ☐ Intel Triton or compatible chip set with PIO mode 4 or UDMA mode 2 settings
- ☐ 8MB of RAM minimum
- ☐ Available half-height drive bay
- ☐ Standard or enhanced IDE/ATAPI adapter card or a motherboard with an available IDE/ATAPI interface connector
- ☐ Windows 98SE/Me/2000/NT 4.0/XP

Drive Orientation

Install the TEAC 52X CD-ROM drive into your computer either horizontally or vertically. For a horizontal orientation, install the drive so that the eject button is located on the right side of the unit. See the figure below. For a vertical orientation, you can install the drive in either direction (i.e., with the headphone jack or the eject button near the top).

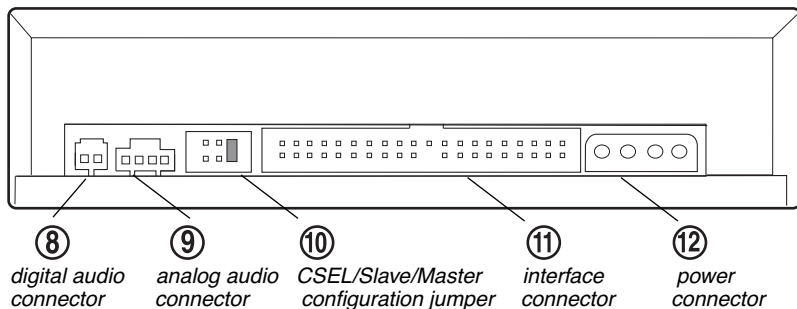


horizontal installation



*vertical
installation
options*

Rear Panel



- ⑧ digital audio connector:** Use a digital audio cable to connect this connector to the digital audio input connector. Pin assignments are described below:

Pin Number	Audio Signal
1	Ground
2	Digital Out

- ⑨ analog audio output connector:** You can use an audio cable to connect this connector to the audio input connector on a sound card. Pin assignments are described below:

Pin Number	Audio Signal
1	Left signal
2	Left ground
3	Right ground
4	Right signal

- ⑩ CSEL/Slave/Master configuration jumper:** The CD-ROM drive includes three pairs of jumper pins on the rear panel that allow you to set the drive to CSEL, Slave (default), or Master mode.

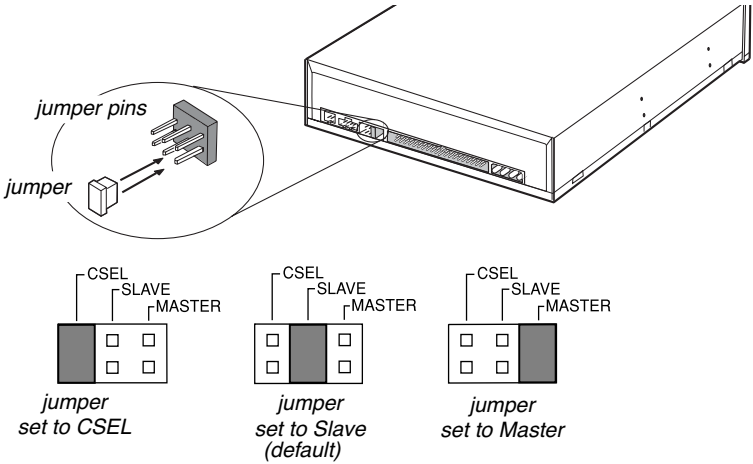
- ⑪ interface connector:** Use an IDE interface ribbon cable to connect the CD-ROM drive to an IDE interface in your computer.

- ⑫ power connector:** Connect the power connector to the +5VDC and +12VDC power sources. Pin assignments are described below:

Pin Number	Power
1	+12VDC
2	0V
3	0V
4	+5VDC

Configuring the CD-ROM Drive

The CD-ROM drive features three pairs of jumper pins on the rear panel. By placing the jumper on the appropriate pair of pins, you can set the drive to Master, Slave, or CSEL mode. The factory default setting is the Slave position.



Installing the CD-ROM Drive

This section explains how to install the TEAC CD-ROM Drive into an IBM PC or compatible personal computer. Follow the steps below and refer to your computer documentation for information specific to your system.

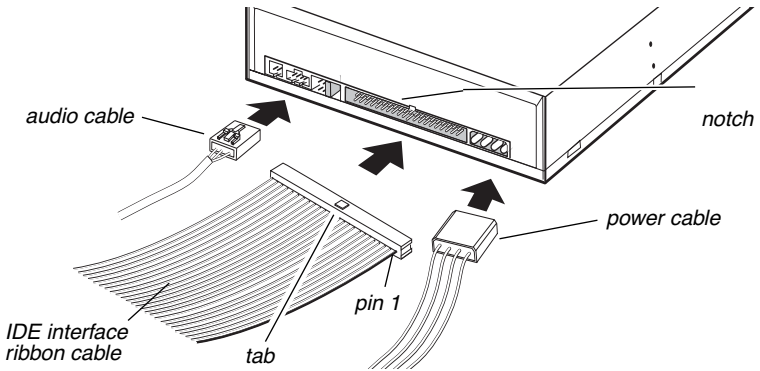
Caution: Turn off your computer and unplug it from the AC power source before you install the CD-ROM drive. Failure to do so may result in electric shock.

1. Turn off the power to the computer system and any external devices connected to it.
2. Touch the exposed metal frame of the computer to ground yourself.
This will prevent damage to the computer or CD-ROM drive that may be caused by a discharge of static electricity.
3. Remove your computer's cover, faceplate, or 5.25-inch bay cover, as well as mounting clips, screws, and retaining brackets. Refer to your computer system's documentation for information on this procedure.
4. Confirm that the jumper on the rear panel of the CD-ROM drive is configured correctly. (See "Configuring the CD-ROM Drive" on page 3.)
5. Install the CD-ROM drive in an available 5.25" drive bay.
6. Secure the CD-ROM drive using 3x5mm mounting screws.

Warning: Do not use mounting screws longer than 3x5mm to secure the CD-ROM drive or you may damage the unit.

7. Connect the power cable, the IDE/ATAPI 40-pin ribbon cable, and the audio cable to the appropriate connectors on the rear panel of the CD-ROM drive.

Be sure pin #1 on all cable connectors matches the drive and system connectors. (See the figure on the next page.)



8. Re-install your computer's cover, faceplate, or bay cover.
9. Start your system.

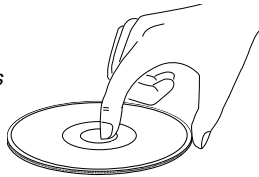
Note: No software drivers are required. Windows 98SE, Me, 2000, NT4.0, and XP will automatically detect the drive and assign it the next available drive letter.

The system will display a CD-ROM drive icon in My Computer. The drive is now ready for use.

Handling Discs

- ☐ Handle compact discs only by their edges to avoid getting fingerprints on the surface. Do not touch the disc's data surface (unlabeled side).
- ☐ Do not place discs in direct sunlight, or in locations subject to high humidity, high temperatures, or dusty conditions.
- ☐ To protect the disc against scratches and dirt when not in use, keep it in its protective case.

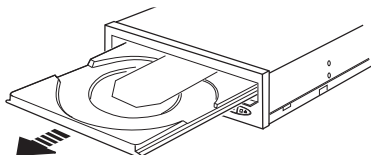
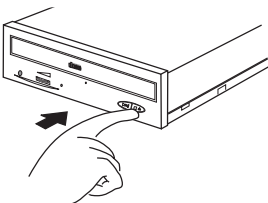
handle discs
by their edges



Loading and Unloading a Disc

To load a disc, first open the disc tray by pressing the eject button on the front of the drive. Place the disc on the disc tray with its label side facing up. Then press the eject button again to retract the disc tray back into the drive.

To eject a disc, press the eject button on the front of the drive to extend the disc tray. Remove the disc from the disc tray and store it in its protective case. Then press the eject button again to retract the disc tray back into the drive.



Specifications

Disc	
CD-ROM Formats Supported	CD-DA; CD-ROM Mode-1, CD-ROM XA Mode-2 (Form-1 and 2); Multi-session PhotoCD; i-Trax; CD-I; Video CD; CD Plus, CD-R; CD-RW
Disc Diameter	8cm/12cm
Rotational Speed	10,600rpm (52X speed, CAV)
Drive Performance	
Data Transfer Rate	52X
Access Time	120 msec
Buffer Size	128KB
Optical Pickup	Semiconductor laser
Slide Mechanism	Gear motor
Spindle Motor	Brushless motor
Error Rate	Block/(10 to the 12) bits (Mode 1 and Mode 2 Form 1) Block/(10 to the 9) bits (Mode 2 Form 2 and CD-DA)
Front Panel	
Buttons & Controls	Auto eject, auto inject, play, volume control knob
Indicator (LED)	Green
Headphone Output	3.5mm diameter stereo mini-headphone jack 0.75 - 0.25V; 32 ohms
Rear Panel	
Required Power	+5VDC, 480mA; +12VDC, 1.4A (average)
Interface Connector	IDE/ATAPI, 40-pin, header type
Audio Output	2.0 - 0.6Vrms, 10K ohms
Environment	
Operation	Temperature: 5° C to 45° C (41° F to 113° F) Humidity: 20% to 80% (non-condensing)
Storage	Temperature: -10° C to 55° C (-22° F to 131° F) Humidity: 20% to 80% (non-condensing)
Dimensions & Weight	
Dimensions	5.86"(W) x 1.69"(H) x 7.53"(D)
Weight	1.98 lbs.
Reliability	
MTBF	25,000 POH (Duty 25%)

Technical Support

TEAC America, Inc. (USA)
 Technical Support
 Telephone: (323) 727-4860 • Fax: (323) 869-8751
 Monday - Friday 8:00 a.m. - 5:00 pm PST
<http://www.teac.com/DSPD/techsupport-America.htm>
 E-mail: dsptsg@teac.com